FIG.1 PRIOR ART

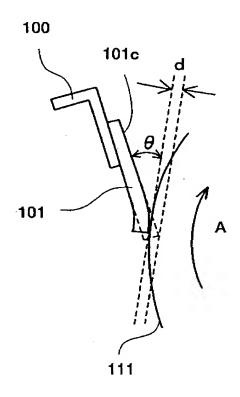


FIG.2 PRIOR ART

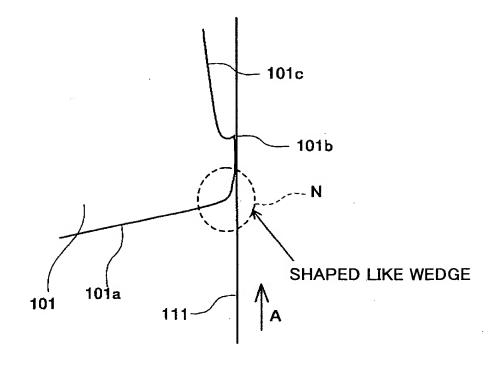


FIG.3 PRIOR ART

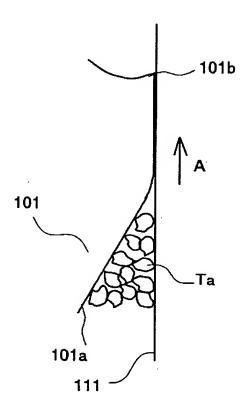
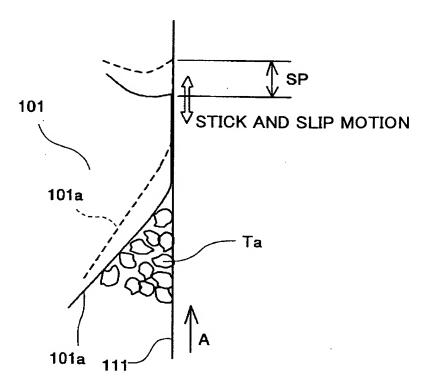
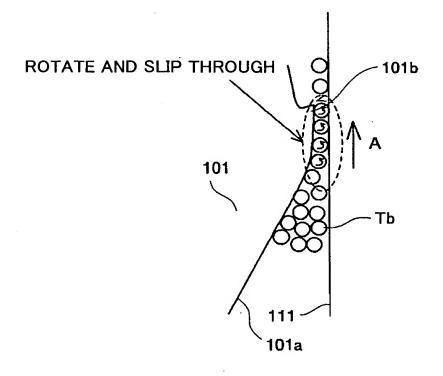


FIG.4 PRIOR ART



#### FIG.5 PRIOR ART



#### FIG.6 PRIOR ART

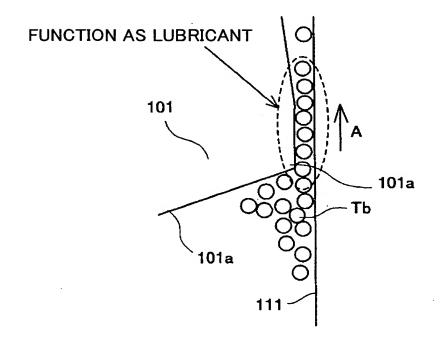


FIG.7

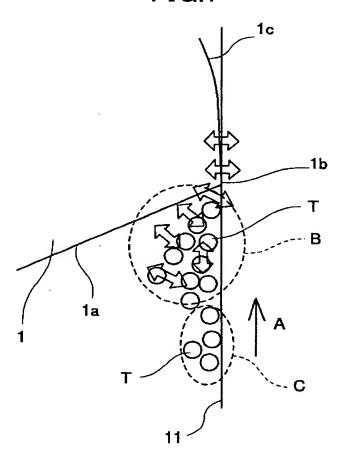


FIG.8

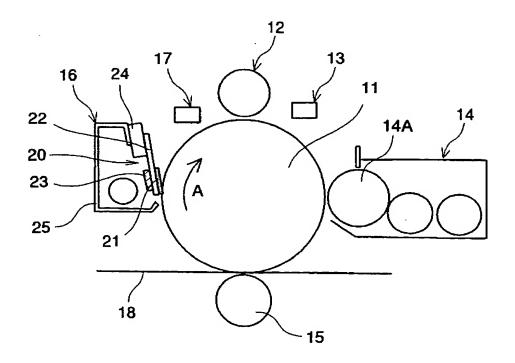


FIG.9

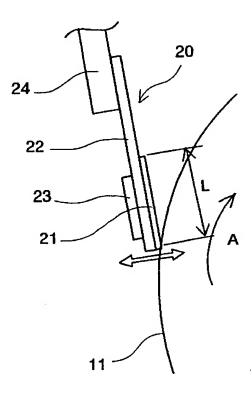


FIG.10

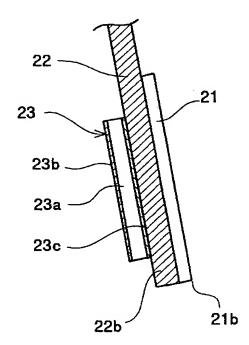


FIG.11

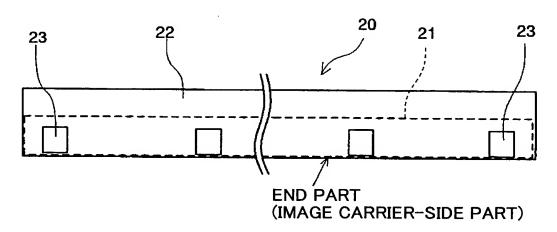
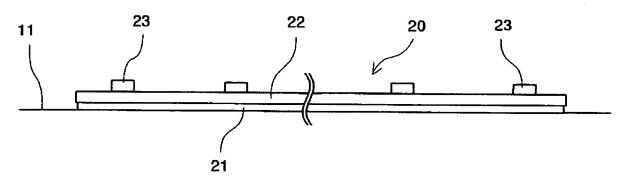
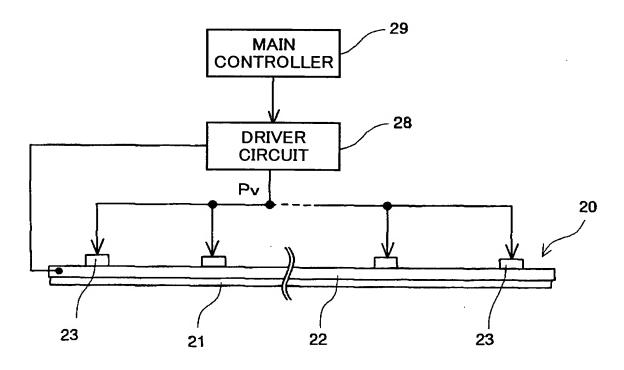


FIG.12

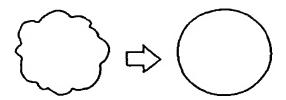


**FIG.13** 



OBLON, SPIVAK, ET AL DOCKET #: 251418US2 INV: Tohru NAKANO, et al. SHEET 7 OF 21

**FIG.14** 

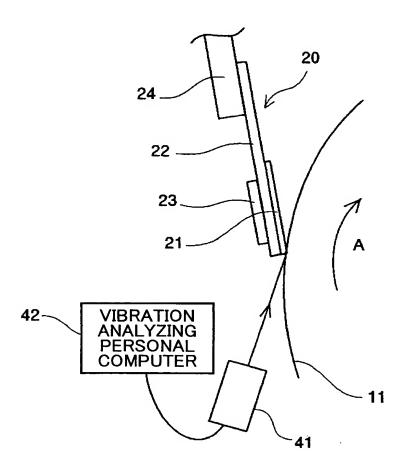


CIRCUMFERENCE: L1 CIRCLE OF AREA S

PARTICLE PROJECTED AREA: S CIRCUMFERENCE: L2

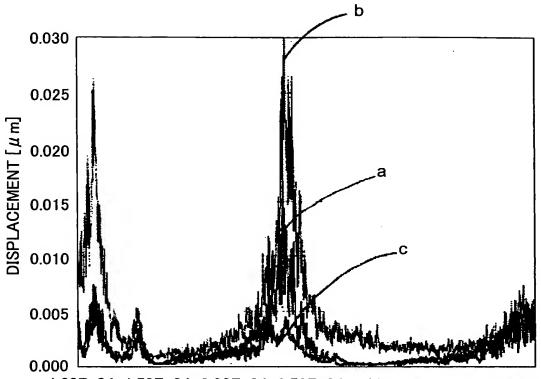
 $CIRCULARITY = \frac{L2}{L1}$ 

**FIG.15** 



OBLON, SPIVAK, ET AL DOCKET #: 251418US2 INV: Tohru NAKANO, et al. SHEET 8 OF 21

FIG.16



1.00E+04 1.50E+04 2.00E+04 2.50E+04 3.00E+04 3.50E+04 4.00E+04 FREQUENCY [Hz]

FIG.17

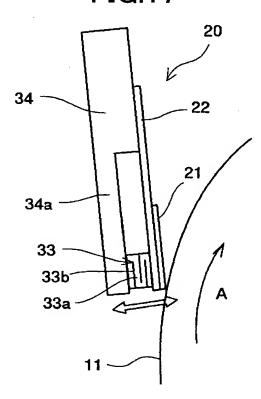


FIG.18

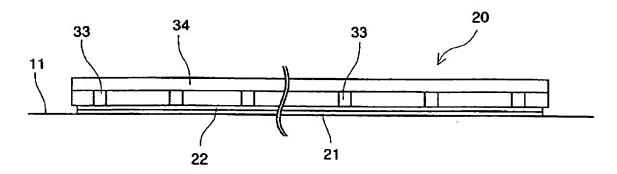


FIG.19

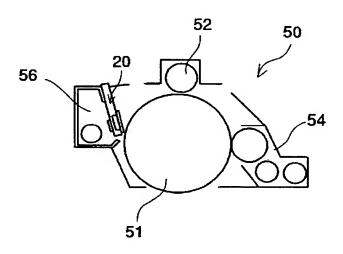


FIG.20

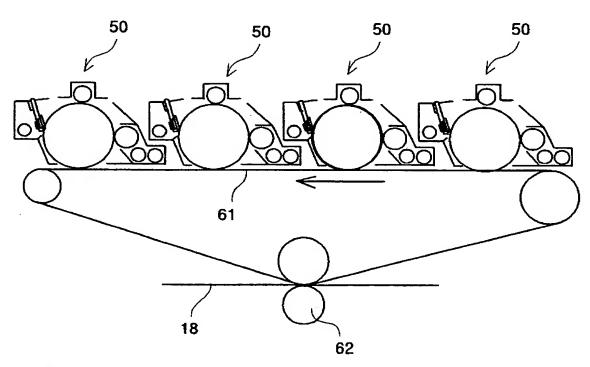
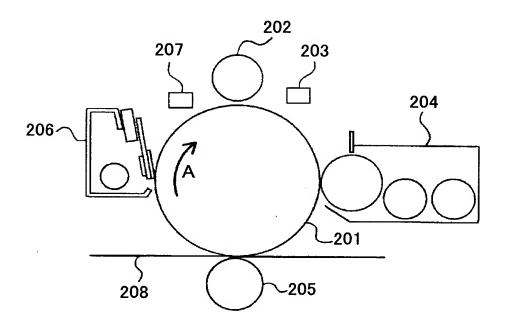
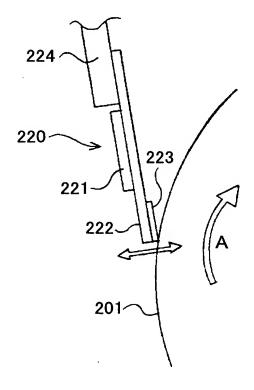


FIG.21



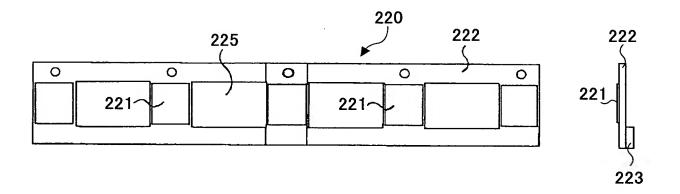
**FIG.22** 



OBLON, SPIVAK, ET AL DOCKET #: 251418US2 INV: Tohru NAKANO, et al. SHEET 11 OF 21

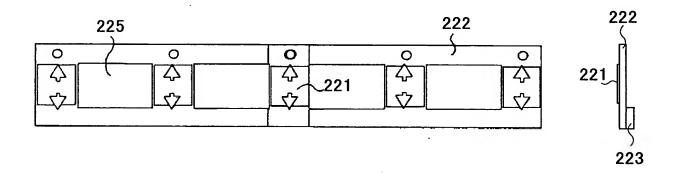
## FIG.23A

FIG.23B



#### FIG.24A

# FIG.24B



OBLON, SPIVAK, ET AL DOCKET #: 251418US2 INV: Tohru NAKANO, et al. SHEET 12 OF 21

FIG.25

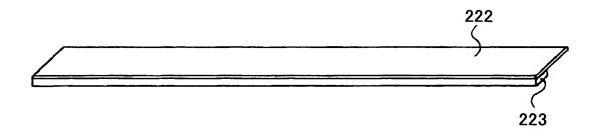
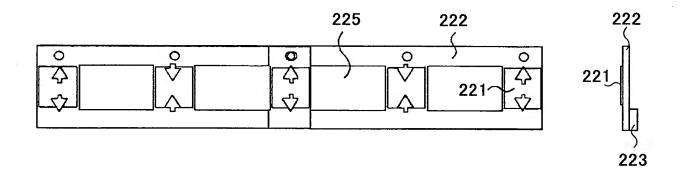
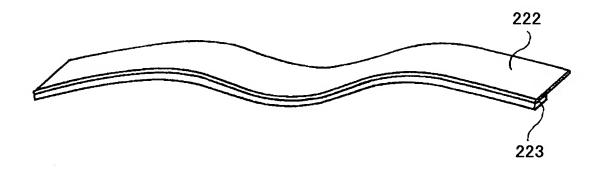


FIG.26A

FIG.26B



**FIG.27** 



**FIG.28** 

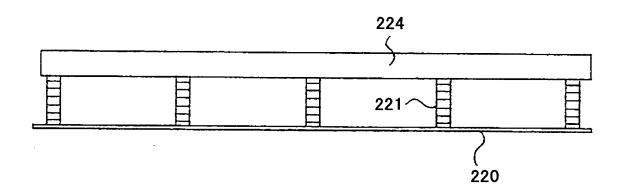
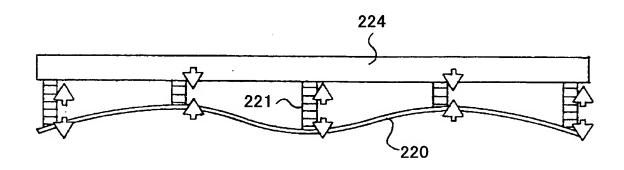


FIG.29



OBLON, SPIVAK, ET AL DOCKET #: 251418US2 INV: Tohru NAKANO, et al. SHEET 14 OF 21

FIG.30

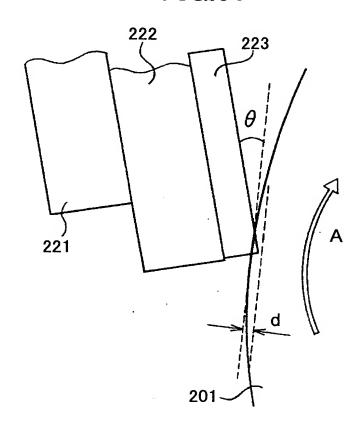


FIG.31A

FIG.31B

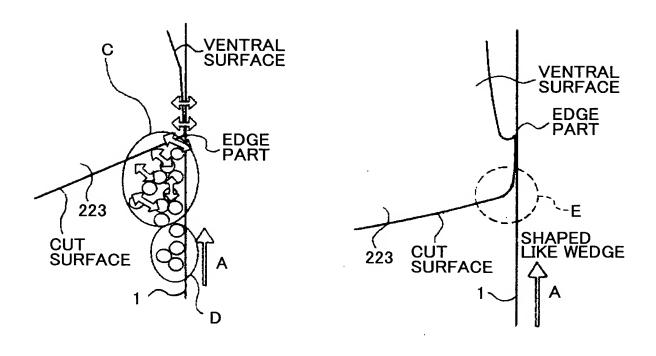
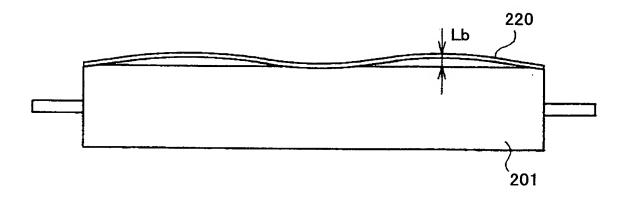
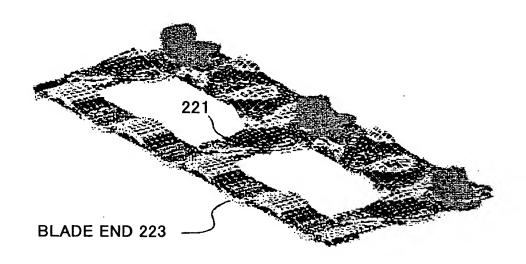


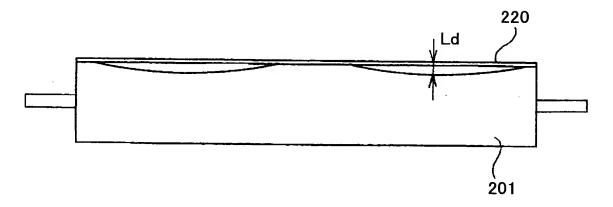
FIG.32



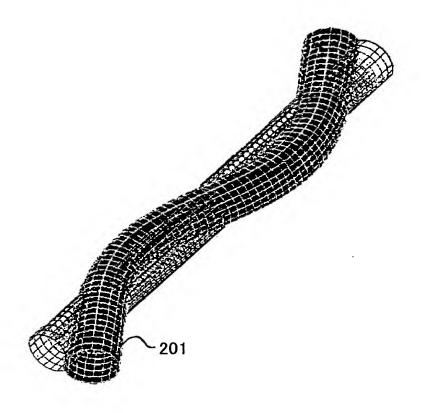
**FIG.33** 



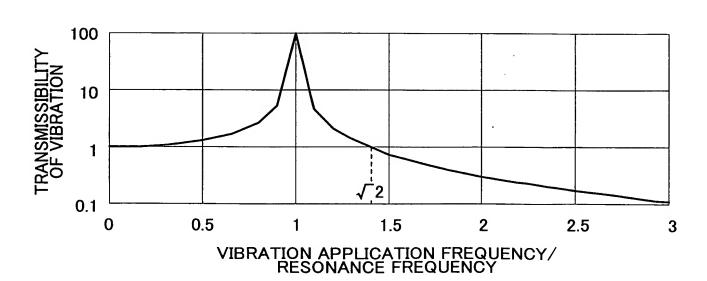
**FIG.34** 



**FIG.35** 



**FIG.36** 



OBLON, SPIVAK, ET AL DOCKET #: 251418US2 INV: Tohru NAKANO, et al. SHEET <u>17</u> OF <u>21</u>

FIG.37A

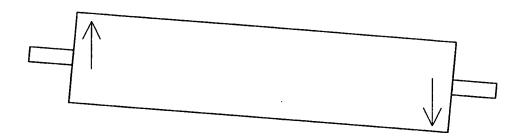


FIG.37B

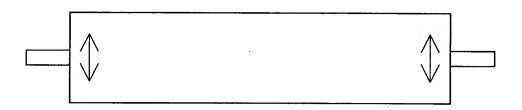
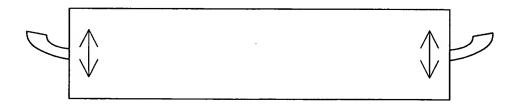


FIG.37C



OBLON, SPIVAK, ET AL DOCKET #: 251418US2 INV: Tohru NAKANO, et al. SHEET 18 OF 21

## FIG.38

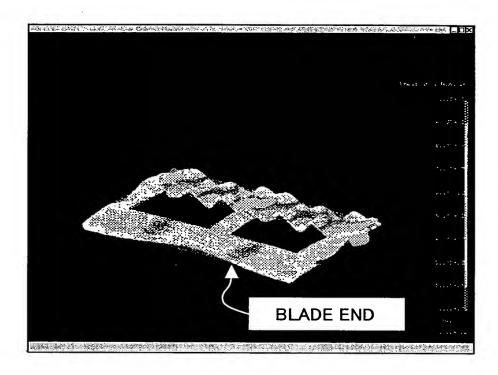


FIG.39

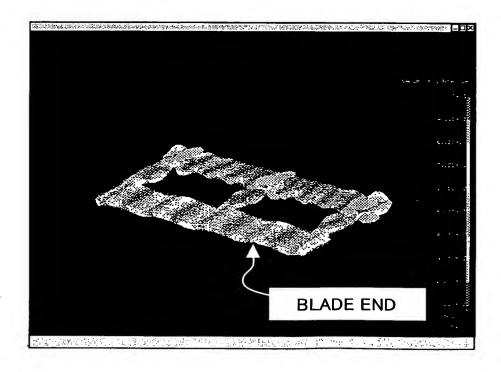


FIG.40

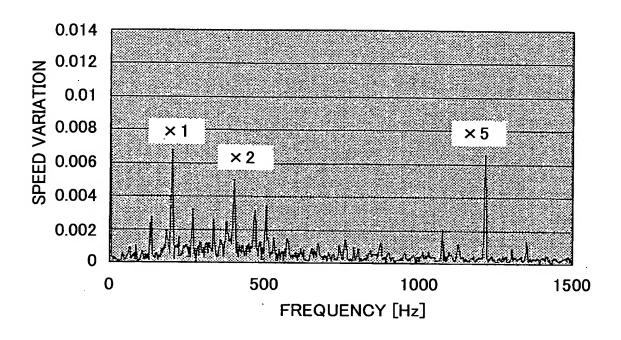
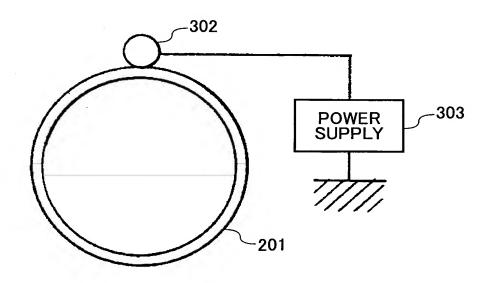


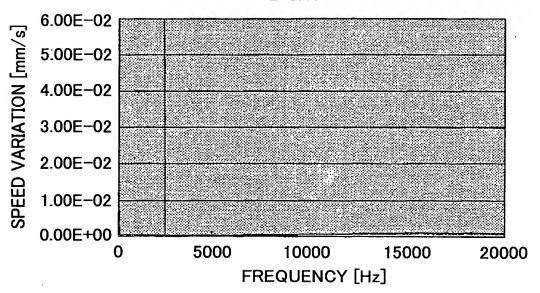
FIG.41



OBLON, SPIVAK, ET AL DOCKET #: 251418US2 INV: Tohru NAKANO, et al. SHEET <u>20</u> OF <u>21</u>

**FIG.42** 





**FIG.43** 

## FREQUENCY OF APPLIED VOLTAGE 3914Hz

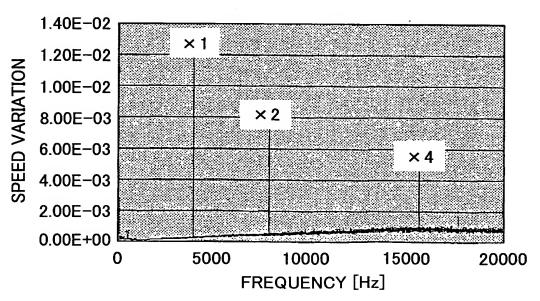


FIG.44

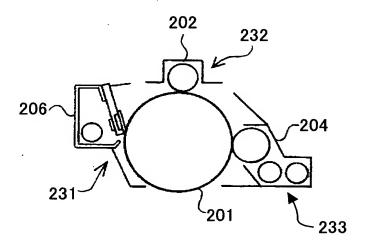


FIG.45

